

ABSTRACT

A hermetic multi-layered ceramic semiconductor package for micro-machined semiconductor devices. The package has a substrate with top and bottom surfaces. A micro-machined semiconductor device is located adjacent to the top surface. Vias extend through the substrate between the surfaces. The micro-machined semiconductor device is electrically connected to the vias. A rigid support is located between the micro-machined semiconductor device and the top surface to support the micro-machined semiconductor device during assembly and to space the micro-machined semiconductor device from the top surface. Solder spheres are mounted to the bottom surface and are connected to the vias.